

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979536

Luminaire Tested: PRLX-CYL6-940-31L-MD-U-S-X-X-BLAK

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-31L-MD-U-S-X-X-BLAK
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK TRIM WITH MEDIUM OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

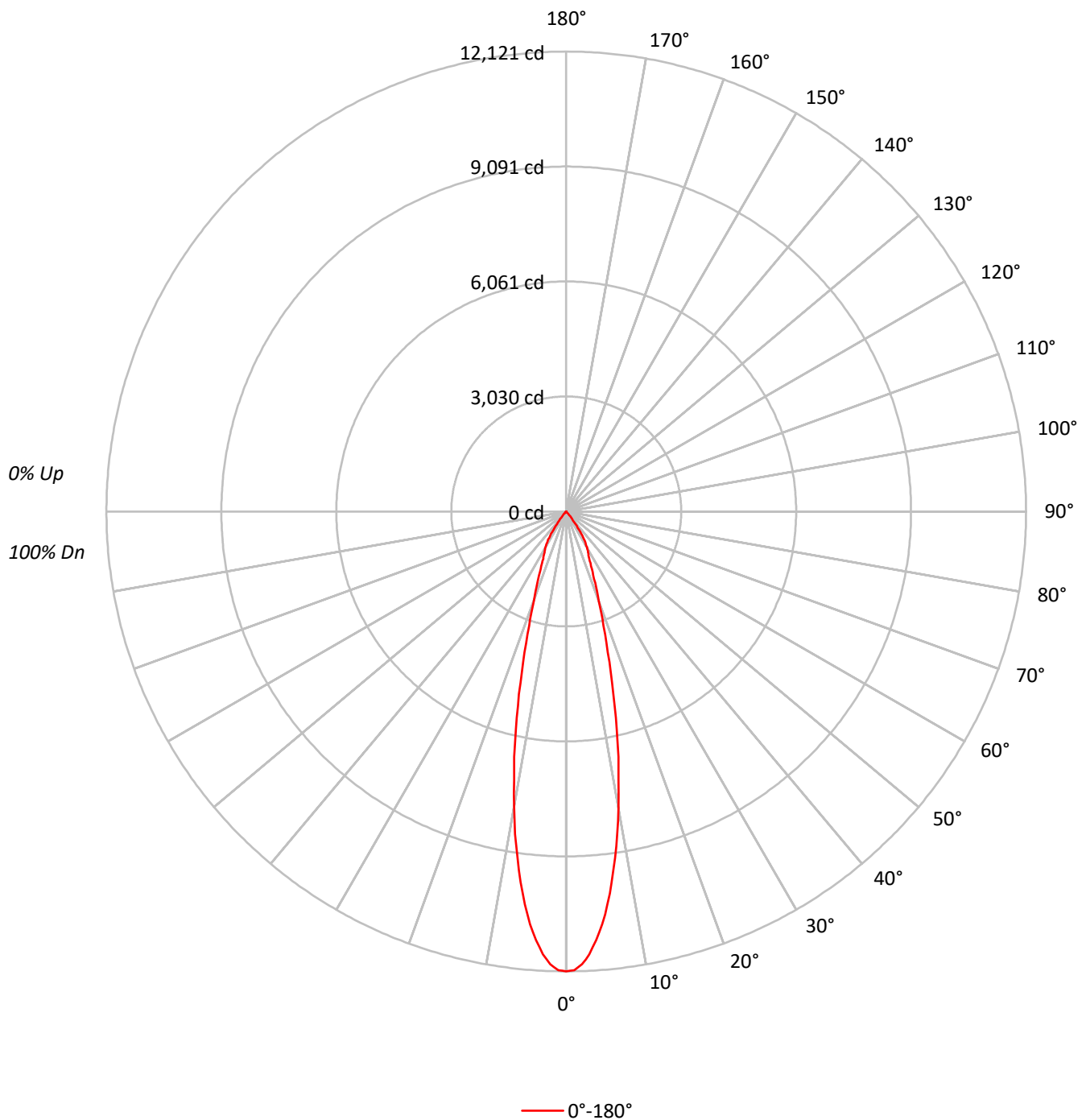
Lumens per Lamp: N/A
Luminaire Lumens: 3340.8 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	112	110	109	112	110	108	107	106	105	104	103	101	100	99	98	98
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93
3	106	101	97	94	105	100	96	94	98	95	92	95	93	91	93	91	89
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86
5	99	93	88	85	98	92	87	84	90	86	84	88	85	83	87	84	82
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79
7	92	85	81	77	91	85	80	77	83	80	77	82	79	76	81	78	76
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73
9	87	79	75	71	86	79	74	71	78	74	71	77	73	71	76	73	71
10	84	76	72	69	83	76	72	69	75	71	69	75	71	68	74	71	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	122050
5°	110409
10°	81156
15°	48663
20°	26839
25°	16732
30°	12722
35°	7215
40°	1117
45°	162
50°	64
55°	37
60°	20
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.1	28.3
10°-20°	1294.5	38.7
20°-30°	727.4	21.8
30°-40°	356.9	10.7
40°-50°	15.4	0.5
50°-60°	2.2	0.1
60°-70°	0.4	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2966.0	88.8
0°-40°	3322.9	99.5
0°-60°	3340.5	100.0
0°-90°	3340.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12121	
5°	10924	944
15°	4668	1294
25°	1506	727
35°	587	357
45°	11	15
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12121.4
1°	12095.5
2°	11943.0
3°	11687.9
4°	11325.9
5°	10923.5
6°	10414.2
7°	9847.9
8°	9224.6
9°	8614.7
10°	7937.5
11°	7211.4
12°	6613.0
13°	5910.8
14°	5271.9
15°	4668.3
16°	4121.7
17°	3622.8
18°	3174.8
19°	2834.6
20°	2504.8
21°	2251.7
22.5°	1927.1
23°	1820.2
24°	1657.4
25°	1506.0
26°	1388.8
27°	1296.5
28°	1221.8
29°	1160.6
30°	1094.2
32.5°	880.6
35°	587.0
37.5°	298.7
40°	85.0
42.5°	19.7
45°	11.4
47.5°	7.3
50°	4.1
52.5°	3.1
55°	2.1
57.5°	2.1
60°	1.0
62.5°	1.0
65°	0.0

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

END OF REPORT